

**SEE- Award** (name “*Herman Potočnik – Noordung Award*” proposed by MHEST) for  
**Research Infrastructure Donations within the Framework of RTDI Collaboration  
 with West Balkan Countries**

**Research Infrastructure needs**  
**- Application form for Scientific & Research Institutions from West Balkan Countries**

<b>Section A – General information</b>
<b>A.1 Contact details</b>
Name of applicant/(institution) <ul style="list-style-type: none"> <li>• <b>Polytechnic University of Tirana</b></li> <li>• <b>Department of Physics</b></li> </ul>
Legal status / Type of organisation: <ul style="list-style-type: none"> <li>• <b>Public Institution</b></li> </ul>
Address (Street name, ZIP code, town):  <b>Sheshi “Nene tereza” nr. 4, Tirana, Albania</b>
Telephone no.: <b>+35543227914</b> Fax no.: <b>+3554227914</b> e-mail: <b>pellumb.berberi@gmail.com</b> web address/url: <a href="http://www.upt.al/">http://www.upt.al/</a>
represented by (name of person <u>legally responsible</u> ) <ul style="list-style-type: none"> <li>• <b>Prof. Dr. Perparim Hoxha, Rector</b></li> </ul>
Name of the contact person <ul style="list-style-type: none"> <li>• <b>Prof.Dr. Pellumb Berberi</b></li> <li>• <b>Prof.Dr. Tatjana Mulaj</b></li> </ul>
Address (if different from address stated above)  -  Telephone no.: Fax no.: - e-mail: - web address/ url:
<b>A.2 Applicant (Institution) profile (half page A4)</b>
<p align="center">           The <b>Polytechnic University of Tirana</b> is inherited from the Polytechnic Institute, founded in 1951. Later on, in 1957, some other faculties were established and the Polytechnic Institute was converted into the State University of Tirana.         </p> <p>           In 1991 the Polytechnic University of Tirana (PUT) split up from the University of Tirana,         </p>

under the provisions of recent legislation and from then on now it keeps the status of an independent chartered institution.

PUT is the only technical university in Albania. It has four faculties and four inter- faculties departments. Actually at the PUT study more than 6300 students and it has a staff of 287 faculties.

Department of Physics at PUT is one of four inter-faculties departments. The Department is composed of three main sections:

- Section of Theoretical and Modern Physics
- Section of Electromagnetism
- Section of Material Science

Actually the Department has a staff of 18 full time faculties and 15 part time faculties. Every year 5 PhD student carry out their research activity at the Department

Starting from year 2005 at the Department is opened the branch of “Engineering Physics” which will graduate students in two main options: Optics and Optoelectronics; Material Science. Around 40 new students are admitted every year in the above branch.

## **Section B – Description of the research infrastructure requirements/needs**

### **B.1 Please list your research infrastructure requirements – the most urgent equipment you would need.**

- Fabri – Perrot interferometer – high resolution
- Ultrasonic Doppler effect
- Heat pump

### **B.2 Describe the relevance of the requested research infrastructure for the work of your institution and the potential impact of receiving the items listed above (B.1).**

On the most important subjects of research in the Department of Physics is optoelectronics. This is, also, object of research of several PhD students every year and of many students stying Engineering Physics. Optics and Optoelectronics is subject of a internatinal cooperatin project of the Department. Actually the laboratory of optics is very poor, which makes very difficult research work and cooperation. The above instruments will be very helpful for carrying out some of research activities and for improving teaching .

### **B.3 Please indicate the potential users of the requested equipment.**

- Staff of the Department,
- PhD and Master students of branch of Engineering Physics and Electronic and Telecommunication

### **B.4 Please describe the training needs of your institution related to the requested equipment**

- Professional installation
- One week training

**B.5** Please indicate if there is assistance needed with regard to the transportation and maintenance related to the requested equipment

No need for maintenance and transport

**B.6** Additional Comments

Please fill in and return the form by email to the contact person in your country (see appendix 1)

Place, date: 22.10.2007

Signature and Stamp of applicant

Prof. Dr . **Perparim HOXHA**